PATENT SPECIFICATION

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249,011

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COMPLETE SPECIFICATION.

Improvements in a Wind Motor.

I, Arthur Seids, a citizen of the Czecho-Slovakian Republic, of Turciansky, Czecho-Slovakia, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improved wind motor, in which the wind wheels are arranged in a horizontal cylindrical casing while the wind is supplied to said wheels through a hopper at the front end of said casing and sucked-off through an elliptical outlet funnel at the rear end of said casing, said outlet funnel serving at the same time for adjusting the motor to the actual wind directions.

The accompanying drawing illustrates the improved wind motor in Figs. 1 and 2 in a sectional side view and in a rear view respectively.

In the open ended cylindrical horizontally located casing 2 a revoluble horizontal shaft 4 is centrally mounted and fitted with the wind wheels 5 and 6, the wings of the front wheel 5 being arranged closer than those of the rear wheel 6 whereby an intense action of the wind flowing through the casing is obtained. A hopper 1 at the front end of the casing serves to supply the wind to said wheels, while wind-pressure regulating contrivances 8 are located in the rear of said hopper. At the rear end of said casing, an elliptical outlet funnel 3 is provided for sucking-off the wind and adapted to adjust the motor to the actual wind directions, for which purpose, on the one hand, it is located with its long axis vertical so that it is of large height but of small width only and on the other hand, the casing 2 is movable in a horizontal plane by its being revolubly supported at 15 on a hollow foot 10 fixed on top of the tower 13 carrying the wind motor, while a circular race 12 on top of said tower receives guiding rollers 11 depending from said hopper 1 and funnel 3. A bevel gearing 7 intervenes between the horizontal shaft 4 and a vertical spindle 14 passing through the hollow foot 10 and transmitting the power from the wind motor to down below. Discs 9 in front of the wind wheels 5, 6 serve to direct the wind to the outer active planes of said wheels.

The wind pressure regulating contrivances may consist of pivoted slats or shutters indicated diagrammatically in Fig. 1 which normally close openings in the sides of the hopper 1, but which yield under excessive wind pressures and permit the escape of some of the wind through the openings.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A wind motor, comprising an open-ended horizontally located cylindrical casing, a revoluble horizontal shaft centrally mounted in said casing, wind wheels keyed on said shaft, a wind supply hopper at the front end of said casing, wind-pressure regulating contrivances in the rear of said hopper, and a wind sucking-off funnel at the rear end of said casing having elliptical shape with its long axis located in a vertical direction.

2. In a wind motor as specified in Claim 1, a hollow foot on which said casing is revolubly supported so as to be movable in a horizontal plane, a stationary circular race, and guiding rollers depending from said hopper and said funnel and engaging in said race.

3. In a wind motor as specified in Claim 1, a hollow foot on which said casing is revolubly supported so as to be movable in a horizontal plane, a vertical spindle passing through said foot, and a

bevel gearing intervening between said shaft and said spindle.

4. A wind motor as specified in Claim 1, characterised by the fact that the vanes of the wind wheel at the front of the casing are arranged closer together than the vanes of the other wind wheel.

5. The improved wind motor substantially as described with reference to the drawings.

Dated this 21st day of August, 1925.

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(Seids)

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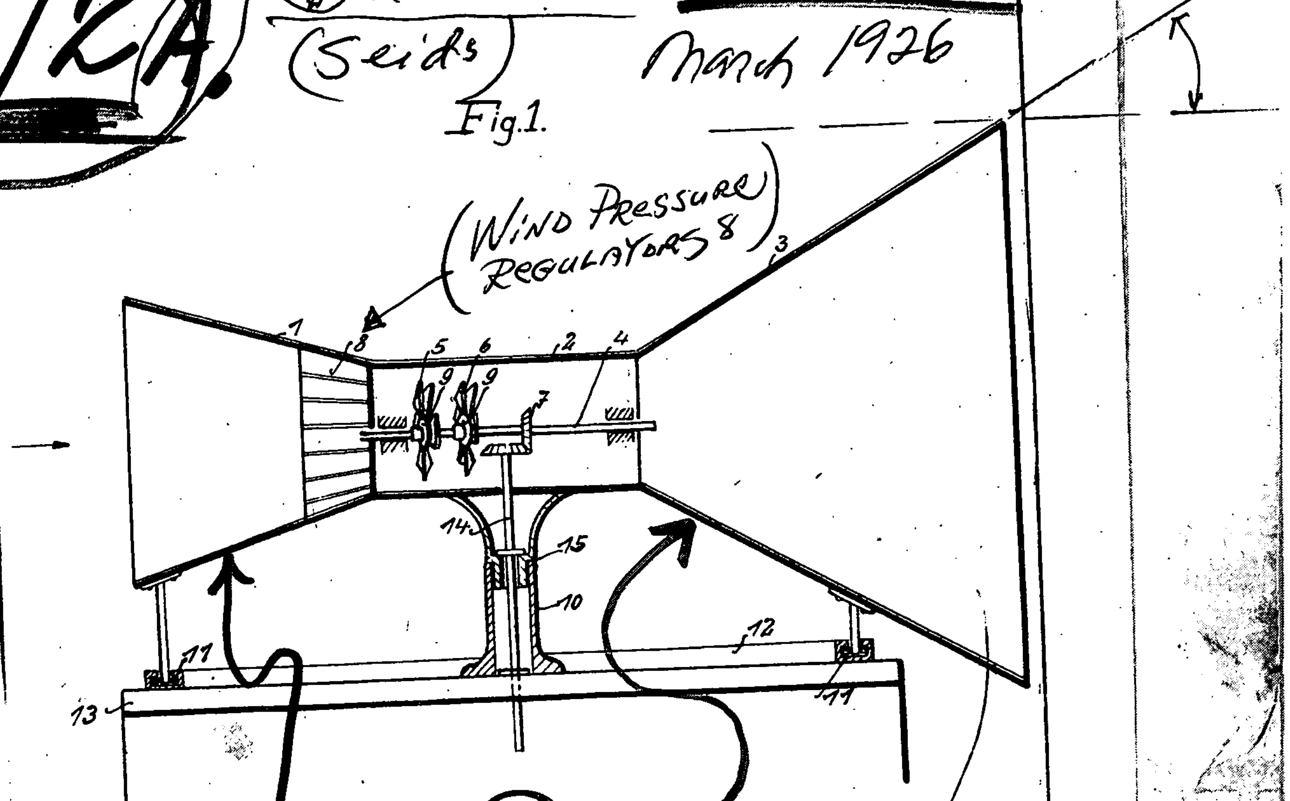
Fig.1.



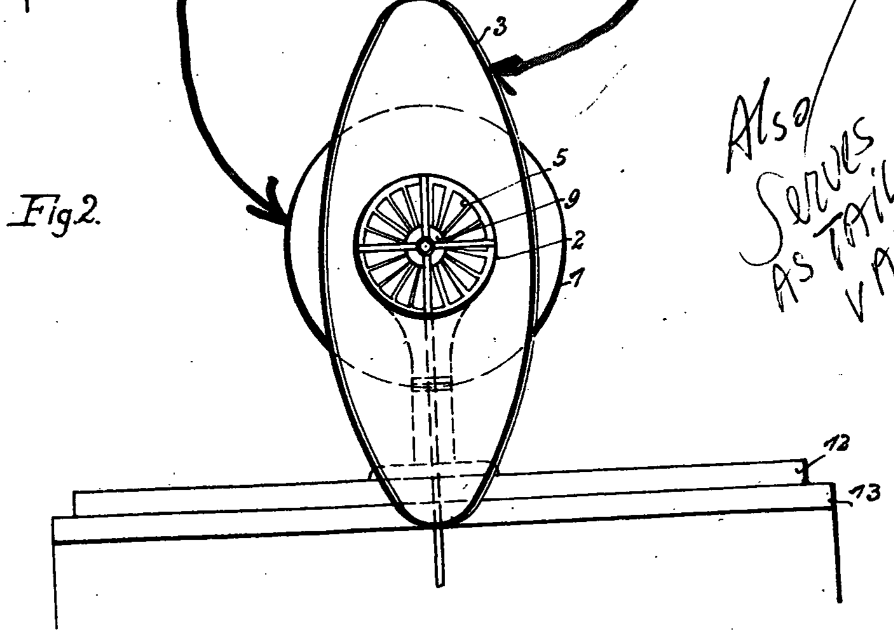


Fig.2.

Also Serves As Tail Vane

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